

in line 20, cancel "patent" substitute --Patent No.-- therefor;

in line 25, cancel "US" substitute --United States Patent No.-- therefor.

On page 2, in line 4, cancel "US" substitute --United States Patent No.--  
therefor;

5 in line 6, cancel "plurality" substitute --number-- therefor;

in line 9, insert a centered heading:

**--SUMMARY OF THE INVENTION--;**

cancel lines 15-16, substitute the following at line 15:

-- This object is inventively achieved in accordance with the present  
10 invention in a high voltage resistant edge structure in an edge region of a  
semiconductor component, said edge structure comprising:  
a semiconductor body having at least one inner zone of a first conductivity  
type adjacent to a first surface of said semiconductor body;  
at least one floating guard ring of a second conductivity type arranged in  
15 said inner zone; and  
inter-ring zones of said first conductivity type respectively arranged in said  
inner zone, said inter-ring zones being allocated in pairs to each of  
said floating guard rings, said inter-ring zones being arranged  
laterally such that they separate two respective consecutive floating  
guard rings from one another,  
20 wherein at least one of said floating guard rings and said inter-ring zones  
have at least one of conductivities and geometries set such that  
their free charge carriers are totally depleted when a blocking  
voltage is applied.--.

25 On page 3, in line 10, cancel "Beyond this" substitute --In an embodiment--  
- therefor;

in line 11, cancel "particular" substitute --an embodiment-- therefor;

in line 21, cancel "The" substitute --In an embodiment-- therefor;

in line 23, cancel ", respectively,";

in line 26, cancel "What" substitute --In an embodiment, what-- therefor;  
in line 29, cancel ", or respectively," substitute --or-- therefor.

On page 4, in line 2, cancel "As" substitute --In an embodiment, as--  
therefor;

5 in line 4, cancel "Depending" substitute --In an embodiment, depending--  
therefor, and cancel "it would also be imaginable";

in line 5, cancel "to realize", and after "stopper" insert --is realized--;  
in line 7, cancel ", respectively";

in line 9, cancel "The" substitute --In an embodiment, the-- therefor;

10 in line 11, cancel "It" substitute --In an embodiment, is-- therefor.

On page 5, cancel lines 5-25, substitute the following at line 5:

-- In an embodiment, at least an outermost of the magnetoresistors is nearly  
completely enclosed by a cathode metallization in a direction of the first surface of  
the semiconductor component.

15 In an embodiment, the cathode metallization is a metallization of a source  
electrode of the semiconductor component.

In an embodiment, the inter-ring zones in the edge region have a cross-  
section tapered to the first surface.

20 In an embodiment, the semiconductor component is one of a vertical  
power transistor or an IGBT.

These and other features of the invention(s) will become clearer with  
reference to the following detailed description of the presently preferred  
embodiments and accompanied drawings.

#### **DESCRIPTION OF THE DRAWINGS**

25 Figure 1 is a cross-section of a high voltage resistant semiconductor  
component, which is constructed as a D-MOSFET (or IGBT) here and which  
comprises an edge structure constructed in accordance with the present invention.

Figure 2 is a cross-section of a further embodiment of an inventive edge  
structure constructed in accordance with the present invention.

Figure 3 shows several cross-sections representing various trench types.

Figure 4 shows several exemplifying embodiments representing the creation of a homogeneous doping distribution in the edge region of a semiconductor component, which can be purposefully adjusted.

5       Figure 5 shows several cross-sections representing various edge variations for adjusting a purposeful, "softly" leaking doping concentration in the edge region of a semiconductor component.

**DETAILED DESCRIPTION OF THE PRESENTLY PREFERRED EMBODIMENTS--**

10      On page 6, in line 1, cancel "subsection" substitute --cross-section-- therefor;  
in line 4, cancel "consisting of a plurality" substitute --having a number-- therefor.

15      On page 7, in line 1, cancel "plurality" substitute --number-- therefor;  
in line 15, after "IGBT" cancel ", respectively", and after "zones 8" cancel  
", respectively,";  
in line 17, cancel ", respectively";  
in line 19, cancel ", respectively";  
in line 22, after "10" insert --(not labelled)--.

20      On page 8, in line 1, cancel ", respectively".

On page 9, in line 24, cancel "subsection" substitute --cross-section-- therefor;  
in line 28, cancel "121" substitute --11-- therefor.

25      On page 10, in line 2, cancel ", or respectively," substitute --or-- therefor;  
in line 6, cancel ", or respectively," substitute --or-- therefor;  
in line 20, cancel "btwen [sic]" substitute --between-- therefor.

On page 11, in line 1, cancel "trechn [sic]" substitute --trench-- therefor,  
and cancel "subsection" substitute --cross-section-- therefor;  
in line 3, cancel "trechn [sic]" substitute --trench-- therefor;  
in line 5, cancel "The" substitute --In the-- therefor;  
in line 13, cancel "subsection" substitute --cross-section-- therefor.

5

On page 12, in line 9, cancel "development" substitute --embodiment--  
therefor.

10

On page 13, in line 6, cancel ", or respectively," substitute --or-- therefor;  
in line 9, cancel ", or respectively," substitute --or-- therefor;  
in line 19, cancel "It would also be imaginable" substitute --In an  
embodiment, it is possible-- therefor;

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in line 22, cancel "use" substitute --be used-- therefor;  
in line 23, cancel "[sic]";  
in line 27, after "grid" cancel the comma;  
in line 28, cancel "respectively,".

20

On page 14, in line 12, cancel ", or respectively," substitute --or-- therefor;  
below line 13, insert the following paragraph:

-- Although modifications and changes may be suggested by those of  
ordinary skill in the art, it is the intention of the inventors to embody within the  
patent warranted hereon all changes and modifications as reasonably and properly  
come within the scope of their contribution to the art. --

Cancel page 15.